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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
10/010,351	E1/13/2001	Ernesto De La Conche Estrada	12354	8191
7390 01/28/2004			EXAMINER	
ORUM & ROTH 53 WEST JACKSON BOULEVARD			FOE, MICHAEL I	
CHICAGO, IL 60604-3606			ART UNIT	PAPER NUMBER

DATE MAILED: 01/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/010,351	DE LA CONCHA ESTRADA ERNESTO		
	,	Examiner	Art Unit		
		Michael I Poe	1732		
eriod for	The MAILING DATE of this communicati	on appears on the cover sheet w	ith the correspondence address		
Extens     after Si     If the p     If NO p     Fature     Any rec	ALLING DATE OF THIS COMMUNICAT.  On of firm may be available under the provisions of 37 x (6) MONTHS from the making data of this communication of 67 reg by appendix a down is see than thery (30) day saided for septy is specified above. The maximum statution is engly with a set or extended period for regy will, by received by the Office labor than three mostfals after in patient form of 1874 the 1874 of 1874 the 1	CPR 1 136(a). In no event, however, may a ton. s. a reply within the statutory manimum of this period will apply and will expire SIX (6) MOI!	ty (30) days will be considered timely (THS from the making date of this communication		
		e to communication(s) filed on 13 November 2001.			
		This action is non-final.			
3)(□ 8	ince this application is in condition for a losed in accordance with the practice un	llowance except for formal mat nder Ex parte Quayle, 1935 C.E	ters, prosecution as to the merits is 0. 11, 453 O.G. 213.		
ispositio	of Claims				
4)⊠ C	falm(s) 1-9 is/are pending in the applica	ition.			
4:	) Of the above claim(s) is/are wi	thdrawn from consideration.			
	laim(s) is/are allowed.				
	laim(s) 1-9 is/are rejected.				
	laim(s) is/are objected to.				
8) 🗌 C	laim(s) are subject to restriction :	and/or election requirement.			
pplicatio	Papers				
9)⊠ Ti	e specification is objected to by the Exa	aminer.			
10) Tr	e drawing(s) filed on is/are: a)[	accepted or b) cbjected to	by the Examiner.		
	oplicant may not request that any objection t				
R	eplacement drawing sheet(s) including the o	orrection is required if the drawing	s) is objected to. See 37 CFR 1,121(d)		
11) Th	e oath or declaration is objected to by t	ne Examiner Note the attached	Office Action or form PTO 152		

Priority under 35 U.S.C. §§ 119 and 120

Α

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of: Certified copies of the priority documents have been received.

Certified copies of the priority documents have been received in Application No. 09/260,742.

 Copies of the certified copies of the priority documents have been received in this National Stage. application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78

a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet, 37 CFR 1.78.

hment(s)	
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawling Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)	intervew Summary (PTO-413) Paper No(s).     Notice of Informal Patent Application (PTO-152)     Other:

1) 🗵

## DETAILED ACTION

### Priority

- Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/260,742, filed on March 1, 1999.
- 2. It is noted that this application appears to claim subject matter disclosed in prior Application No. 09/280,742, filed March 1, 1999. A reference to the prior application must be inserted as the first sentence of the specification of this application or in an application data sheet (37 CFR 1.76), if applicant intends to rely on the filling date of the prior application under 36 U.S. 0. 119(e) or 120. See 37 CFR 1.78(e). For benefit claims under 35 U.S. 0. 120, the reference must include the relationship (i.e., continuation-in-part) of all nonprovisional applications. Also, the current satus of all nonprovisional applications. Also, the current satus of all nonprovisional period applications referenced about the included. In the instant case, although reference to the parent application is provided, the reference so not include the correct filling date of the parent application (e.g., reference states the parent application was filed on March 3, 1999 rather than on March 1, 1999) and the current status of the parent application (e.g., row abandoned). The reference to the erfor application in the instant application is hould be amended in response to this Office action to correct the above noted deficiencies.

If the application is utility or plant application filed under 35 U.S.C. 111(a) on or after November 29, 2000, the specific reference to the prior application must be submitted during the pendency of the application and within the later of four months from the actual filing date of the application a sixteen months from the filing date of the prior application. If the application is a utility or plant application which entered the national stage from an international application filed on or after November 29, 2000, after compliance with 35 U.S.C. 371(b) the specific reference must be submitted during the pendency of the application and within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) or sixteen months from the filing date of the prior application. See 37 CFR 176(a)(27(a)) and (a)(5)(a). This time period is not extendable and a failure to submit the reference required by 35 U.S.C. 118(e) and/or 120, where applicateles, within this time period is considered a weiter

of any benefit of such prior application(e) under 35 U.S.C. 119(e), 120, 121 and 365(c). A priority claim filed affer the required time period may be accepted if it is accompanied by a grantiable petition to accept an unintentionally delayed claim for priority under 36 U.S.C. 119(e), 120, 121 and 365(c). The petition amust be accompanied by (1) the reference required by 35 U.S.C. 120 or 119(e) and 37 CFR 1.76(a)(2) or (a)(5) to the prior application (unless previously submitted), (2) a surcharge under 37 CFR 1.78(a)(2) or (a)(5) to the prior application (unless previously submitted), (2) a surcharge under 37 CFR 1.78(a)(2) or (a)(5) and the date the claim was flew was unintentional. The Director may require additional information where there is a question whether the delay was unintentional. The petition should be addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, Versinia 2233-1450.

# Drawings

The subject matter of this application admits of illustration by a drawing to facilitate understanding
of the invention. Applicant is required to furnish a drawing under 37 CFR 1.81. No new matter may be
introduced in the required drawing.

### Specification

4. The disclosure is objected to because of the following informatilies: (1):", Is missing after "1999" on page 1, line 4; after "general" on page 6, line 12; after "instures" on page 6, line 17; after "etc" on page 8, line 17; after "approximately" on page 9, line 13; and after "pigments" on page 10, line 6; and "stores" should be "stored" on page 9, line 23.

Appropriate correction is required.

# Claim Objections

 Claims 1-9 are objected to because of the following informatities: (1) " is missing after "inert" on page 12, line 13 in claim 1; and (2) "," is missing after "metals" on page 12, line 8 in claim 1. Appropriate correction is required. Application/Control Number: 10/010,351

#### Claim Rejections - 35 USC & 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant reparts as his invention.
- Claims 2 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for falling to particularly point out and distinctly claim the subject matter which applicant reparts as the invention.

The term 'rico-sized' in claim 2 is a relative term which renders the claim heddenlie. The term 'rico-sized' is not defined by the claim, the specification does not provide a standard for assortating the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Since the applicant does not specific actual drinnesions (e.g., length and diameter) that term 'rico-sized' is intended to encompass and commercially available rice can have multiple different sizes, one of ordinary skill in the art would not be able to adequately determine what size would be considered 'rico-sized' by the applicant. As such, one of ordinary skill in the art would not be reasonably apprised of the access of the invention in the instant rese.

Regarding claim 3, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP \$ 2173.05(d).

## Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title. If the difference between the subject matter sought to be patented and the pitor at an such that the subject matter as a whole would have been obvious at the firms the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability skill not be negative by the manner in which the invention was made.

 Claims 1-3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 3,113,014 (Foth) in view of U.S. Patent No. 4,844,351 (Holloway).

Claims 1-3 and 7

Foth teaches a method of processing waste material including discharging waste material such as municipal wastes including garbage, rubbish, etc. (such trash may be selected from the group

consisting of organic and inorganic waste such as glass, plastic, laminated material, diaper, wood, paper. burlap, asbestos, aluminum, non-rigid metals, grass, animals, plants, fruit, bones and food residues) onto a classifying screen to separate the material according to the bulk size of individual particles or units (collecting industrial and/or household trash); subjecting the material which passes through the classifying screen to a magnetic separate to remove all iron-containing materials and discharging the magnetizable materials for salvage (sorting rigid metals from non-recyclable trash; removing rigid metals); conveying the material which passes through both the classifying screen and the magnetic screening step to a grinding mill in which all of the particles are ground to a minimum size requirement consistent with economical operation (grinding such non-recyclable trash); feeding the material discharged from the grinding mill to a briquette press where the ground material is compressed into units in the form of relatively small briquettes; and either simultaneously with the compressing of the material into briquettes or in a subsequent step, packaging or enclosing the briquettes within a substantially air-tight covering or coating (storing or packaging such ground trash) (column 1, lines 8-12; column 1, line 54 - column 2, line 53). Note that, the step of packaging or enclosing the briquettes within a substantially air-tight covering or coating would not constitute subjecting the ground non-recyclable trash to any chemical and/or thermal treatment or additional agents to render it biologically inert as defined by the applicant's original disclosure. Note further that the storing or packaging step in applicant's claim 1 provides evidence that storing or packaging is not considered a step excluded by the "wherein" portion of claim 1.

Note that, although Forth does not specifically leach that the material which passess through both the classifying screen and the magnetic screening step is ground to rice-sized particles. Forth does teach that the material is ground to a minimum size requirement consistent with oconomical operation. As such, Foth recognizes that the size of the material after grinding is a result-effective variable based on the conomics of the operation. Since the size of the material is a result-effective variable as recognized by Foth, one of ordinary skill in the art would have obvious determined the opinium size of the material after grinding through routine experimentation based upon the economics of the infining operation.

Foth does not specifically teach sorting recyclable trash from non-recyclable trash; removing recyclable trash; and that the trash volume is reduced up to 80%. However, Holloway teaches a method

for separation, recovery and recycling of plastics from municipal solid waste including introducing municipal solid waste into a pressure vessel in the presence of steam to remove rags; subjecting the resultant material to magnetic separation to remove ferrous metals (sorting rigid metal from nonrecyclable trash; removing rigid metals); subjecting the resultant material to eddy current separation to remove aluminum particles (sorting rigid metal from non-recyclable trash; removing rigid metals); introducing the resultant material into a trommel in the presence of hot air to remove low density plastics and trommel rejects (sorting recyclable trash from non-recyclable trash; removing recyclable trash); and introducing the result material including organics, glass and dense materials into a stoner to separate the organic material from the remaining materials (sorting recyclable trash from non-recyclable trash; removing recyclable trash) such that the mass of the municipal solid waste is reduced by approximately 78.45% (the trash volume is reduced up to 80%) (Table 1; Figure 1). Note that a weight reduction of about 78.45% would represent a volume reduction of up to about 80%. It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made and one of ordinary skill would have been motivated to use the sorting process in the process of Foth including the removal of recyclable trash as taught by Holloway to make the process of Foth more economically and environmentally sound (see specifically column 2, lines 59-68 of Holloway).

 Claims 4-8, 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 3,113,014 (Folth) in view of U.S. Patent No. 4,844,351 (Holloway) and U.S. Patent No. 3,734,988 (Aintablian).

# Claims 4-6, 8 and 9

The discussion of Foth and Holloway as applied to claim 1 above applies herein.

Foth further teaches that the method includes transferred the coated briquettes from the process site to the point of use or storage immediately after the protective coating is applied (transporting stored ground trash; unpacking said packed ground trash; exposing the coated briquettes to air upon competion of the anaerobic digestion process to remove or disintegrate the coating; and using the briquette material as a soil conditionor (column 3, lines 4-35). As discussed above with recard to olam 1,

Foth in view of Holloway further teaches that the mass of the municipal solid waste is reduced by approximately 78.45% by the classifying operations (the trash volume is reduced up to 80%).

Foth in view of Holloway does not specifically teach using the briquettes to form an ecological mixture having the claimed compositions and using the ecological mixture to form a construction element such as those claimed. However, Aintablian teaches a process for making construction products from refuse including grinding inert refuse is ground to a fine powder; mixing the powder with fillers and binders such as hydraulic setting cements and glues (forming an ecological mixture); adding water and other chemicals as required or desired (forming an ecological mixture); forming the resultant mixture into blocks or other building materials by pressing (forming a construction element; said construction element is used to construct borders, sidewalks, avenues, contention walls or concrete plates for provisional division of roads, for filling and leveling, crockery and light constructions or buildings, for manufacturing blocks, bricks and posts); and curing the formed blocks or other building materials until a specified strength has been achieved wherein the resultant mixture comprises 100% ground inert refuse (about 10 to about 90% ground trash), 0 - 50% Plaster of Paris, 0 - 50% lime, 0 - 60% silica in the form of sand and gravel (up to 30% sand, up to 30% gravel), 0 - 50% calcium in the form of gypsum, 0 - 30% Portland cement (about 10 to about 50% of Portland cement) and 25-110% water (water as needed) (abstract, Figure 1 and column 1, line 60 - column 4, line 2; column 3, lines 7-29). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made and one of ordinary skill would have been motivated to the briquette material, after removal of the coating, from the process of Foth in view of Holloway to form construction elements as taught by Aintablian to provide additional commercial uses for the briquette material thereby expanding the profitability of the process of Foth in view of Holloway.

### Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent No. 5.302,331 (Janking) and U.S. Patent No. 4.402,751 (Wide) have been clied of Interest to show processes using trash to produce construction elements without the use of a composting step. U.S. Patent No. 5.227,94.590 (Patenson), U.S. Patent No. 5.227,94.591 (Natemure et al.) and U.S. Patent.

Publication No. 2002/00/23/69 A1 (Rabaie) have been cited of interest to show processes for sorting and removing metals and recyclables from trash streams. U.S. Patent No. 4,780,433 (Railler, Jr.), U.S. Patent No. 4,889,615 (Tohno Vazquoz et al.), U.S. Patent No. 5,612,615 (Sawyers), U.S. Patent No. 5,851,261 (Aives) and U.S. Patent No. 5,978,435 (Djeff et al.) have been cited of interest to show additional processes using tresh or waster materials to form construction elements or concrete materials. U.S. Patent No. 5,762,225 (Byrd) has been cited of interest to show the state of the art at the time the Invention was made.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael I Poe whose telephone number is (571) 272-1207. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colsianni can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1234.

much

MICHAEL COLAIANN PRIMARY EXAMINES